



OTVARC Oscillator

The Oregon Tualatin Valley Amateur Radio Club Newsletter

March 1996 Issue

From the President:

Jim Schaeffer KB7ADH

Well, Spring is almost here. The winds, snow and floods are over; we hope. Thank you to all of the many hams who helped out during the various winter emergencies. Sure, we didn't get much media coverage. Remember that we are out there to get communications through; not to smile into a TV camera. We got the job done very competently and the various government agencies involved know that we were there when they needed us. As an example, when I received a call from the Tualatin EOC asking for additional hams, I started calling OTVARC members asking you to help. About 3 hours later Doug KB7RHF called me back to say that your response was great and he now had all the help he needed. Thanks again to everyone who helped! Look for an article in an upcoming QST.

As you think back over the various winter emergencies, consider how you could have been more prepared. What constraints (personal & equipment) kept you from providing more help? Are the batteries in your handheld charged? Do you have a rig, power supply and antenna that can be quickly made available at an "emergency site"? Have you made arrangements with your employer to release you in an emergency? These are only a few examples. Our ability to improve our response is never ending.

As a club OTVARC is missing a key component in our ability to respond to emergencies. We have no Emergency Coordinator for the club. The position remains open and unfilled. Anyone want to volunteer or suggest someone who might be interested?

What else is happening, other than emergencies? Spring ham license classes will be starting soon at both PCC and MHCC. Contact Burt Rooke KI7JX 241-2891 for information on the class at PCC. Ed Clulow W7TWL 257-4822 will be doing the MHCC class.

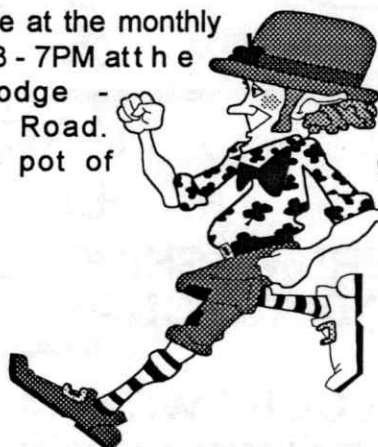
The program for the March OTVARC meeting will be on the "information super highway" the Internet. This should be of interest to hams as well as family and friends. Think about inviting a guest or two. Of course we will have the usual raffle after the program. Last month the raffle included everything from a great DSP filter (guess who won it - no, not me) to a couple of the famous OTVARC coffee mugs.

See - Pres Speaks - Page 8

Come to the March 13th Meeting and learn how to "Surf The Net".

Catch me at the monthly March 13 - 7PM at the Elks Lodge - Canyon Road. find my pot of

meeting - Beaverton 104th and You just might gold.....



All People are Irish On St. Patty's Day

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ANNOUNCING THE 15th ANNUAL MIKE AND KEY ARC ELECTRONICS SHOW & FLEAMARKET

MARCH 9, 1996 @ 9AM

PAVILION EXHIBITION HALL

**WESTERN WASHINGTON FAIRGROUNDS, PUYALLUP, WA
ADMISSION - \$5 (UNDER 16, FREE w/ADULT)**

TWO FLOORS WITH 44,000 Sq FEET OF EXHIBITION AREA

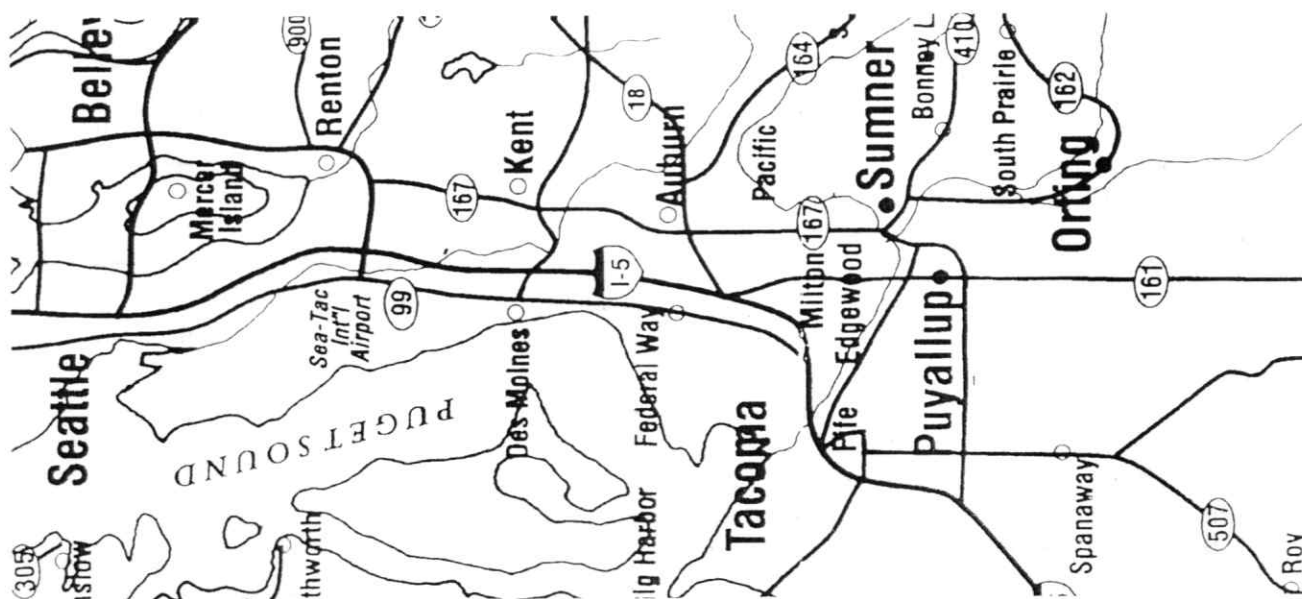
TALKIN 146.82/22 (PL 103.5) & 146.58 SIMPLEX

RADIO GEAR * COMPUTERS * CLUB INFO * PARTS

SNACK BAR * FREE PARKING * CONSIGNMENT AREA

OVERNIGHT SC/RV's OK * LICENSE EXAMS

(LICENSE EXAM SESSION @ 11AM, RESERVATION REQUIRED)



From the Secretary Alan Chinnock KB7POR

It looks like we will finally get it going, a Project Night that is. For those of you who may not remember, Project Night is when a bunch of us get together to build something. This is an activity that goes back to the very beginning of our hobby, before there were all the phone order options we have today. Building equipment is an activity that a number of us enjoy doing and we would like to get together with others with the same interests. We would also like to offer the opportunity to those who may have never done anything like this before.

Chuck Mickley and I have put our heads together and started coming up with some ideas. You are hearing about our planning stages for two reasons. One is so you can help keep us on track and moving. The more people that know about our plans the more important it is that we keep going ahead. The second is so that you can become involved as early as possible. Building a project is not something best done one week after someone stands up at the meeting and says Project Night is next Friday. So much for the process. Now what ideas do we have.

One school of thought says that when you are learning to build things electrical you should start at DC and move up in frequency as you move up in experience. Based on that it seems like we could start with the well known Anderson Connectors. I suspect that there are a number of new members who may not know what they are. There may be a few older members who have a new piece of equipment that does not yet have them installed. Seems to me like a good idea to get together and get all our stuff wired with these little red and black things. The good news for the new people in the club is that we have a lot of experienced people to show you how to attach these things and to discuss why we think they are such a good idea. You do not even have to bring a soldering iron. More on this as we put dates to the ideas.

The hardest part of a project night is deciding what one project will have the greatest appeal to the wide range of interests of our diverse membership. Chuck's insightful solution to this is to let everyone have their own project. This sounds like chaos, but I think we can keep it under control. This idea is geared toward the newer ham or the person who has never built anything before. The idea is for the interested parties to come together with pre-purchased kits and work together with some of the more experienced builders to assemble them. To this end I will be gathering catalogs of kits for you to choose from. Again, more on this as we schedule the actual times.

There is the start of our plans. A couple of other ideas are floating around as well. One is the "traditional"

Project Night where everyone gets together and builds the same thing. We are always looking for ideas with universal appeal. The other is a Night where people have built projects that do not work. We will bring in some of our "experts" to assist in getting them running. This is your club, we are looking for input from you to make this part of the club activities work best for you and your enjoyment of the hobby.

73 - Alan

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From the Secretary Alan Chinnock KB7POR

This is probably not the place to say it, but I will anyway. If you are not reading this article it may be because you did not renew your membership with OTVARC. This month we will be using the new 1996 list of members for mailing. If you hear from a friend that they are not getting Oscillated, ask them if they renewed. If their answer is yes have them call me and we will fix them up.

It happened as scheduled on January 20 and 21. It was the great OTVARC ARRL January VHF Sweepstakes. The five intrepid operators; me KB7POR, Bill N7VZF, Jim KB7ADH, George KC7LOP, and Brad N7NVC gathered and waited for the appointed time. The storm of RF began and we furiously made 32 contacts over the next 33 hours, a rate of nearly one contact per hour. Are we great at working pileups or what.

As near as I can tell our score is 288 points. Based on last year's winner in the limited multioperator who made 502,138 points we should look real good in the contest, if we are the only entrant. With a little help from the 150 club members we could have raised our score by 4800 points if we had talked to all or you on the four bands we were running. We will be back next year and expect you to come out and support us.

You say you do not know how to contest. The solution is coming up on April 1. We will have our own FM simplex contest. Details to be found elsewhere in this publication.

So much for the operating fun of the Amateur Radio. I have just been reviewing the membership roster for the coming year and have found some items that you will want to know.

Our current club appears to date way back to 1978. Nine of the people who were brave enough to sign up for this unknown entity are still listed as members. You know who you are so I won't list your names and thus will spare you from being called be all the new comers who want to know what it was like in the good old days. Most of the current members joined during 1991 through 1995.

I won't say much about the age of the club, but 102 of you are older than me.

We are doing quite well in the ARRL area. 69% of us are members. 20% are not. The rest are unknown. I am not sure whether I don't know or they don't know. For those are not members you are missing a great opportunity to stay in touch with wide world of Amateur Radio. This organization provides a lot of services to us in this country and deserves our support.

Alan Speaks - Continued Page 8

Minutes of Board Meeting 1-24-96

1. Meeting called to order by Pres. Jim Schaeffer at 7:05 pm local.
2. Those in attendance were: Schaeffer, Beach, McKie, Mickley and Chinook.
3. Minutes of previous meeting were approved.
4. Old business: Name tags for officers.
5. VP report: February-Larry Stuker from the Portland FCC office. March-Program on the Internet.
6. New business: Club radio contest April 1 (April Fools Day) Planning to be by Jim and Alan.
7. Meeting adjourned

QST QST QST

General Counsel

Christopher Imlay, N3AKD

Look to the future, We need, like never before, to belong to the ARRL. The League is our ONLY support in Washington! If you want to fight commercial interests bent on acquiring ham frequencies then make sure you are an ARRL member. By the way, membership without QST is available to the immediate family of a member living at the same address, and to anyone who is legally blind, for \$5.00 per year.

HEALTH AND WELFARE

Mary Berg, N7TRW, volunteered to take care the clubs health and welfare duties. If you hear of a club member who is ill, give Mary a call at: 640-5456. Thanks to N7TRW.

News From All Over

FIELD DAY 1996

June will be coming along sooner than we think, and it's not too early to give a little thought to Field Day. This year, it's to be held on the 22nd and 23rd of June at a location yet to be determined. Mark your calendar and plan to be there!

First on the agenda is to choose a site. For the last few years we've been alternating between close-in and out-of-town sites, and this is an out-of-town year. Parks, private lots, or other sites having space for tents and suitable parking for RVs are typical locations. If you know of a site that you think would be fun to try, give me a call at 629-5796. I plan to have a site chosen by early April at latest so that it can be announced in the May newsletter.

In next month's newsletter I will start with the usual detailing of equipment needs, plus I'll give a brief rundown on Field Day for any new hams who haven't experienced it before. So stay tuned.

— Carl WS7L

Visitors at the February Meeting

David Smeaton	KB7WQN	Beaverton
Bob Bloom	KB7KNY	Portland
Lura McDonald		Beaverton
David Sanderman		Portland

Welcome to OTVARC. I hope that you can find something of interest to you in the club and that you will join us. For those who are not yet licensed we would like to offer the help of the club in your studies.

Ed. Note: Visitors who sign up at the meetings are entitled to a free 3 months subscription to the newsletter. Thanks for visiting. - Bill

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District 1 ARES Net Active for 7 days.

From February 6th through February 12th, the District 1 ARES Emergency net was active on the 147.320 repeater for approximately 90 hours. During that time, the net handled over 300 messages and had probably 450 checkins.

At one time, all seven counties in the district had hams active, manning the various EOCs as well as hazard assessment teams. Many OTVARC members, both past and present, were involved in the effort.

Due to the hard work of many of the hams in the area, the importance of amateur radio communications has been realized by the public. In some cases, it has led to an interest in studying for a ham license. In one case, Vernonia, it has opened up the possibility of a permanent station to be located at the town's fire station with support of the fire chief.

Thanks to all of you who helped make it work. There were too many you to list but you know who you are. A special thanks to K0PB - Bob, for helping handle the net. It was through your support and several others that we received the accolades that we have.

Thanks again - N7VZF - District 1 Net Manager.



Club Jackets, Shirts, and Badges

I have taken over ordering of club jackets, T-shirts and badges. I don't yet have information (i.e. cost) on badges, but I will be happy to take orders from anyone who wants one.

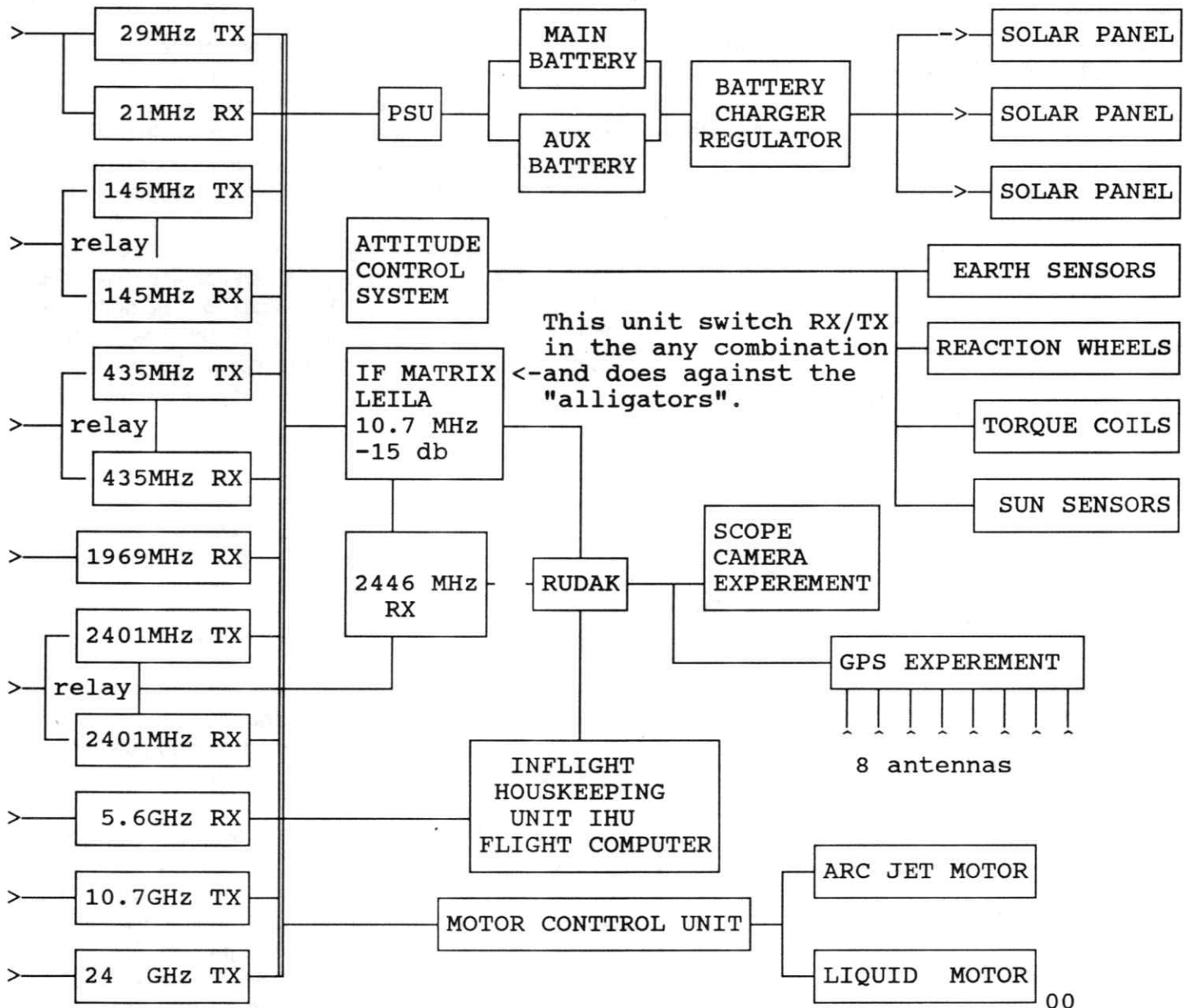
Both lined and unlined jackets as well as T-shirts are available with the club emblem embroidered on the back. The cost is \$30.25 for unlined jackets, \$34.75 for lined jackets, and \$23.88 for T-shirts. For an additional \$4.50 your name or call sign can be embroidered. I should have an order of jackets to distribute at the March meeting, so come and have a look then if you want to see before you buy.

Call me at 629-5796 or see me at a meeting to order.

— 73 de Carl WS7L

From: Satellite Station - W7KJZ

*** P3D BLOCK DIAGRAM ***
(May 1995)



In this and the next part of the series we're going to take an in depth look at the packet node network. In part 4 of this series we explained how to use the network for connecting to another station. Now we'll look at the other features a node offers.

A packet node, in most cases, is still set up for digipeater operation, so you can still use it as a regular digipeater, but for most of your connections you'll want to use the node features. When using a string of digipeaters, your packets have to reach their destination parity correct, and the receiving TNC has to return an acknowledgement (ack) to your TNC for each packet cycle to be completed. As you add more digipeaters to the string, the chances of this happening become less and less. Other stations on the frequency and noise can be the cause of many retries. When using a node, however, your packets no longer have to reach their destination before acknowledgements are returned to your TNC. Each node acknowledges your packet as its sent along the way toward its destination.

Using the packet node network can make your operating time on packet more enjoyable and it can greatly expand the area that you can reach. The network of NET/ROM, TheNet, G8BPQ and KAM nodes is expanding very quickly and now covers most of the country. New nodes are showing up almost daily. Thanks to all of these stations and the interconnecting links, you can now connect to stations in many far distant places using a low powered 2 meter rig. Some nodes are set up for cross-banding, and with the introduction of nodes on 10 meter FM, there's the possibility of working a station just about anywhere.

If you've been monitoring lately, you might have seen the nodes in action. You might have wondered why they were sending all of those weird symbols like @fx/<~|. What you're seeing is the nodes communicating with each other and updating their node lists. You also might have noted callsigns with high numbered SSIDs, such as WB9LOZ-14, WA6DDM-15, W6PW-12, etc. The nodes change the SSID of all stations so that the packets sent via the network are not the same as those sent directly. If you were to use a node to connect to another station in the local area, there's the possibility of your packets being received by this station both from you directly and from the node. If the call through the node wasn't changed, the TNCs involved would be totally confused as it would appear that two stations were connecting using the same callsign. The node automatically changes the SSID using the formula 15-N, where N is your usual SSID. A call with -0 becomes -15, a -1 becomes -14, -2 becomes -13, etc.

The node network is very simple to use. As explained in part 4, to use the node network, you first connect to a local node. It should be one where you can connect direct with good signal strength. Once you've connected, you then have several options — connect to another station within range of the node, connect to another node, connect to an associated BBS, obtain a list of the nodes that are available, or check route and user status. On NET/ROM and TheNet nodes you can also answer or call CQ.

There are several commands available on your local node. All have CONNECT, NODES, ROUTES and USERS, and depending on the type of node you're using, you might also find the BBS, BYE, CQ, INFO, PARMS or PORTS commands available.

THE PACKET NODE COMMANDS:

CONNECT: The CONNECT command (which can be abbreviated as C) is used just like you use the CONNECT command with your TNC. To connect to another local station using the node, simply enter C followed by the callsign. To connect to another node you can use either the callsign or the alias. For example, you can connect to W6AMT or you can connect to the alias SFO. Either one will work.

There's a special consideration when making connections from a node using the G8BPQ Packet Switch software. Since these nodes are capable of having several different frequencies connected to the one node, you have to indicate which frequency port you want to make your connection on. The PORTS command, abbreviated P, will give you a list of the ports available, such as this:

SF:WB9LOZ-2) Ports:

1 223.52 MHz

2 144.99 MHz

3 443.15 MHz

You then insert the port number between the C and the callsign, such as C 2 W6RFN, to indicate which frequency you want to use, in this case the port 2 frequency of 144.99 MHz.

NODES: The NODES command (which can be abbreviated as N) will give you a listing of other nodes that can be worked from the node you're connected to. It lists both the alias and the callsign of each node it knows about. The list you'll find on each node will vary in length and will contain different callsigns since all of the frequencies are not linked.

(continued with more on the NODES command and other commands in part 11)

73.....Rick - KB7OGD @ KB7OGD.OR.USA.NOAM

President - Contd from Page 1

Our equipment lending "library" is progressing nicely under the direction of Stan W7NI. We now have two HW-101 transceivers available to loan to get new hams on the air. We will also assist with set-up, tuning and help construct a simple wire antenna. Call Stan 649-0837 if you know of a ham who is in need of equipment to get on the air. This program has been financed through donated equipment. If you have any equipment (working or not) you would like to donate let Stan know.

Last month we received from ARRL reinstatement as a Special Service Club. The Special Service Club recognition is reserved for Amateur Radio Clubs that meet the highest standards of community service. Everyone who participated in the various club activities last year helped us achieve this recognition.

Now, we need help with some of this year's activities. Two events in particular are already looking for volunteers. Carl WS7L is again heading up Field Day (June 22 & 23). Carl needs several committee members to help organize the various aspects of Field Day. Of course operators are also needed (first come, first served, if you want a specific operating time or band). There is also talk of the Novice and Technician operators challenging the rest of the club! Call Carl 629-5796 if you can help.

SEA-PAC (June 1 & 2) is also recruiting volunteers to help at Seaside. Help is needed for security, flea-market, exhibit set-up, registration and ladies program. If you are going to SEA-PAC and can help in any area, call Randy KZ7T 297-1175, Al WB7SIC 640-5456, Brad N7NVC 657-1781 or Jim KB7ADH 245-2518.

One more thing and then I will quit babbling for this month. **DON'T FORGET THE APRIL 12 METER SIMPLEX CONTEST!**

AAAAAAAAdh

"Q" SIGNALS: Used by Morse Code operators, as abbreviations to save time. Also used by some phone operators who can't remember the words.

CAPACITOR: An electronic component used to store a charge, or to pass unwanted signals to ground. When shorted, it can be used in a high voltage supply for Fourth of July fireworks.

ROTATOR: A mechanical rotating device clamped at the base of a directional antenna which is used to hold it pointed in one direction.



Haste Makes Waste, and Food Makes Waist. Seems like in my haste last month, I had printed the final copy before I had received KB7POR's article on project night. I updated the issue but didn't reprint the page before it went to Al (WB7SIC) to be printed. Sorry Alan but this month, you have two (2) articles to educate and entertain us.. Bill

If you would like to share information with the other members of the club, feel free to submit your articles, quips, quotes, whatever, to me by the 15th of each month. You can send it via Packet to N7VZF@K7IQI, in hard-copy format or 3.5" IBM format disk. As a last resort, give me a call at 644-1974 and I will take it over the phone.

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Alan Speaks - Cont from Page 3

The break down among the classes is

Novice	4
Technician	61
General	27
Advance	32
Extra	28

The numbers here bring up an interesting concept. Since there are about the same number of advanced licenses (60) as there are entry licenses (65), what would happen if each advanced license took it upon themselves to help one entry license to upgrade? I think it would result in a club consisting of mostly very qualified Amateur Radio Operators. Note the opportunity for the General Class folks to sit back and watch.

Lastly for the most important statistic. The most popular zip code area among our members is 970???. Bet you can't wait to see what I have to say next month.

OTVARC

April Fools

Radio Contest Rules, OTVARC April Fools Radio Contest

- 1) Object: To work as many amateur stations as possible in as many different 5-digit ZIP codes as possible using 147.42 FM simplex.
- 2) Contest Period: 2000 local through 2100 local, Monday, April 1, 1996
- 3) Categories:
 - A) Single Operator: One person performs all operating and logging functions.
 - B) Single Operator QRP: Same as (A) with a power limitation of 5 watts.
 - C) Multioperator: More than one person performing operating and logging functions.
- 4) Exchange: Operating 5-digit ZIP code and station category.
- 5) Scoring:
 - A) QSO points: Count one (1) point for each complete single operator or multioperator QSO. Count two (2) points for each complete single operator QRP contact.
 - B) Multiplier: The total number of 5-digit ZIP codes worked.
 - C) Total score: Multiply the total number of QSO points by the multiplier.
- 6) Miscellaneous:
 - A) Partial QSOs do not count. Both calls, the full exchange, and acknowledgement must be sent and received.
 - B) While no minimum distance is specified for contacts, equipment should be capable of real communications (ie. able to communicate over at least 1 km.).
 - C) Use of repeaters and telephones to coordinate contacts is not allowed.
 - D) Rovers are not allowed. Stations must remain in one location for the duration of the contest.
- 7) Reporting:
 - A) Entries must be delivered to the contest organizer at or before the April 10, 1996 OTVARC club meeting.
 - B) Entries must be made on the provided log sheets and summary sheets.
- 8) Awards:
 - A) Certificates will be awarded for the top points winner in each station category.
 - B) Awards will be made at the club meeting May 8, 1996.

 Portland Community College	SCHEDULE	SPRING 1996 CLASSES START MARCH 25
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Amateur Radio - Novice License —Covers material for novice license and technician license. Prepares students for either of two FCC tests. Text: *Now You're Talking* (2nd edition). Tuition: \$50. Fee: \$3. Weeks: 10. Begins: 3/26.

27514 Beaverton Sunset A5 7:00P-9:00P Tue 10 Rooke TC

Amateur Radio-License Upgrade —General License through Extra License. Novice and Technician licenses required before taking this class. Text: *A.R.R.L. License Manual*. Tuition: \$50. Fee: \$3. Weeks: 10. Begins: 3/26.

27511 Beaverton Sunset A9 7:00P-9:00P Tue 10 Bednarek TC

OTVARC 1996 April Fool's Contest

Call Used _____ Zip Code _____

Operator Call(s) _____

Category ☐ A-Single Operator
☐ B-Single Operator QRP (5 watts max.)
☐ C-Multioperator

	Time PST	Call	Zip Code	Category A,B,C	Comments
1					
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
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19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					

Scoring

Category A QSO's _____ x 1 = _____
 Category B QSO's _____ x 2 = _____
 Category C QSO's _____ x 1 = _____
 Total QSO Points _____
 Times Number of Zip Codes _____
 Total Claimed Score _____

Signed _____ Date _____

Copy as necessary. Use back or separate sheet to comment on your experiences or make suggestions.

OTVARC Club Contacts

OTVARC Executive Board

President	Jim Schaeffer	KB7ADH 245-2518
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OTVARC Club Information

Purpose: The Oregon Tualatin Valley Amateur Radio Club, a Not-for-profit corporation, wants to be instrumental in helping the prospective as well as established Amateur Radio Club members.

"The Northwest's Largest Ham Convention"



SEASIDE



Treasurer	Brad Beach	N7NVC	657-1781
Trustee	Wes Allen	K7WWG	649-3295
Trustee	Chuck Mickley	KI7CL	642-1284
Trustee	Janet Bell	WB7FJC	648-4147
Trustee	Al Berg	WB7SIC	640-5456
Trustee	Stan Griffiths	W7NI	649-0837

Other Club Contacts

ARRL Coordinator	Bob Orr	WF7Q	297-2732
Bunny Hunting	OPEN		
Contesting	OPEN		
DX News	Rich Jones	KG7FS	645-9417
Equipment Evaluation	Randy Stimson	KZ7T	297-1175
Equipment Trustee	Al Berg	WB7SIC	640-5456
Emergency Services	OPEN		
Field Day	Carl Clawson	WS7L	629-5796
Health & Welfare	Mary Berg	N7TRW	640-5456
Member Badges	Carl Clawson	WS7L	629-5796
Newsletter Editor	Bill Merwin	N7VZF	644-1974
Newsletter Layout	Bill Merwin	N7VZF	644-1974
Newsletter Distribution	Al Berg	WB7SIC	640-5456
Nominating Committee	Hanford Van Ness	KE7BB	246-7975
Packet - Club BBS	Rick Braun	KB7OGD	645-1490
Project Night	Alan Chinnock	KB7POR	636-2237
	Chuck Mickley	KI7CL	642-1284
Public Relations	Bill Merwin	N7VZF	644-1974
Public Service	Randy Stimson	KZ7T	297-1175
Repeater	Wes Allen	K7WWG	649-3295
RFI & TVI	Dale Mosby	N7PEX	640-0217
Satellites	Dick Emmel	W7KJZ	245-1928
Scholarship	Carl Clawson	WS7L	629-5796
Sea-Pac	Al Berg	WB7SIC	640-5456
	Brad Beach	N7NVC	657-1781
	Jim Schaeffer	KB7ADH	245-2518
	Randy Stimson	KZ7T	297-1175
Technical	OPEN		
Tower Ordinances	Stan Griffiths	W7NI	649-0837
Trailer	Dee Lynch	KA7NPN	646-4580
Training(Code)	Burt Rooke	KI7JX	241-2891
Training(Novice/Tech)	Burt Rooke	KI7JX	241-2891
Training(Upgrade)	OPEN		
VHF/UHF	Alan Chinnock	KB7POR	636-2237

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Additionally, the intent is to promote the advancement of Amateur Radio Service through the following five objectives:

1. Education & Training of new and licensed Amateurs.
2. Public Service during public events & community activities.
3. Emergency communications during emergencies & disasters.
4. Hobby enhancement through meetings, nets & contests.
5. Social contact with other amateurs & interested persons.

Special Service Club OTVARC is an ARRL Special Service Club. The ARRL grants us this distinction due to our participation in emergency preparedness exercises, public service events and other service-oriented programs. In addition, continuing educational and training programs are conducted for FCC licenses. OTVARC benefits from you joining the ARRL through OTVARC. To join or renew your membership in the ARRL, contact the treasurer at any regular meeting.

Newsletter: The *OTVARC Oscillator* is the club newsletter. It is published monthly and is usually mailed on the first of the month. The opinions, views and recommendations of its contributors are not necessarily those of the Club, its officers, advertisers or the editorial staff.

Correspondence: All correspondence may be sent to OTVARC, PO Box 5132, Aloha, OR 97006-0132.

Advertising: Classified ads are free to all paid up members. Display ads are available to approved commercial interests. To place an ad, mail your camera ready copy to the address above and indicate the size desired. All display ads run for six months at a time from January through June and July through December. All ads must be paid for in advance. Rates for 1994 are as follows:

Full Page	8" X 10"	\$200 for 6 mo.
Half Page	8" X 5"	\$125 for 6 mo.
Qtr Page	4" X 5"	\$75 for 6 mo.
Bus. Card	2" X 3"	\$35 for 6 mo.

Meetings: We have two meetings per month. The board meeting is on the first Wednesday of each month. All club business is conducted at this meeting. All members are welcome to attend. Contact the President for location and time. The general meeting is on the second Wednesday of each month at the Beaverton Elks Club, 3500 SW 104th Ave. (1 block north of Canyon Road). Meetings start at 7PM. If you would like to come early, you can get a nice meal from the Elks for less than \$6.

Membership OTVARC is open to anyone who is interested in amateur radio. You do not need to be a licensed radio amateur to join. Dues are as follows: Full member, \$10/yr; Associate member (non-licensed), \$10/yr; Family members of full member, \$5/yr; Life memberships available - see Treasurer. Only full members and life members may vote on club business and serve as club officers. All memberships expire on the last day of the calendar year. If you would like to join during the year, see the club Treasurer for prorated dues.

How To Join: Simply mail the Member Application and Renewal Form along with your dues to the address above.

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POST OFFICE BOX 5132
ALOHA, OREGON 97006-0132

Address Correction Requested

